PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220 as well as, where applicable, item 5 below.							
SJB/PB60320	ACTION								
International application No.	International filing date (day/month)	year) (Earliest) Priority Date (day/month/year)							
PCT/EP2004/006592	17/06/2004	19/06/2003							
Applicant									
GLAXO GROUP LIMITED									
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.									
This International Search Report consists	of a total of she	ets.							
X It is also accompanied by	a copy of each prior art document cit	ed in this report.							
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.									
The international this Authority (Ru		of a translation of the international application furnished to							
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.									
2. Certain claims were fou	ind unsearchable (See Box II).								
3. Unity of invention is lac	sking (see Box III).								
4. With regard to the title,	·								
the text is approved as si	ubmitted by the applicant.								
X the text has been established	shed by this Authority to read as follow	vs:							
1-PHENYL-2-OXO-3-SULFONYLAMINO-PYRROLIDINE DERIVATIVES AND RELATED COMPOUNDS AS FACTOR XA INHIBITORS FOR THE TREATMENT OF ACUTE VASCULAR DISEASES									
5. With regard to the abstract,									
the text is approved as submitted by the applicant.									
6. With regards to the drawings,									
a. the figure of the drawings to be published with the abstract is Figure No.									
as suggested by the applicant.									
as selected by this Authority, because the applicant failed to suggest a figure.									
as selected by this Authority, because this figure better characterizes the Invention.									
b. none of the figures is to be published with the abstract.									

Form PCT/ISA/210 (first sheet) (January 2004)

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The invention relates to compounds of formula (i):

wherein:

R1 represents a group selected from:

$$-(C_{0.3})alk \longrightarrow Z$$

$$-(C_{2.3})alk \longrightarrow Z$$

each ring of which optionally contains a further heteroatom N, Z represents an optional substituent halogen, alk represents alkylene or alkenylene, T represents S, O or NH;

 R^2 represents $-C_{1-6}$ alkyl, $-C_{1-3}$ alkylCN, $-C_{0-3}$ alkylR^c, $-C_{1-3}$ alkylR^f, $-C_{2-3}$ alkylOC₁₋₆alkyl, $-C_{2-3}$ alkylOC₁₋₇

X represents phenyl or a 5- or 6- membered aromatic heterocyclic group containing at least one heteroatom selected from O, N or S, each of which is optionally substituted by 0-2 groups selected from: halogen, -C₁₋₄alkyl, -C₂₋₄alkenyl, -CN, -CF₃, -NR^aR^b, -C₀₋₄alkylOR^a, -C(O)R^a and -C(O)NR^aR^b;

Y represents a substituent selected from hydrogen, halogen, $-C_{1-4}$ alkyl, $-C_{2-4}$ alkenyl, $-NR^aR^b$, $-NO_2$, $-C(O)NR^aR^b$, $-N(C_{1-4}$ alkyl)(CHO), $-NHCOC_{1-4}$ alkyl, $-NHSO_2R^d$, $-C_{0-4}$ alkyl OR^a , $-C(O)R^d$, $-S(O)_aR^d$, or $-S(O)_2NR^aR^b$;

The other substituents are as defined in daim 1.

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/006592

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/4025 C07D409/12 C07D409/14 C07D413/14 A61P7/02								
According to	According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS	SEARCHED							
Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K C07D A61P								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, CHEM ABS Data								
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the rek	Relevant to claim No.						
A	WO 03/043981 A (GLAXO (GB)) 30 May 2003 (2003-05-30) page 1, paragraph 1 claim 1		1-11					
P,X	WO 03/053925 A (GLAXO (GB)) 3 July 2003 (2003-07-03) page 1, paragraph 1 claim 1		1-11					
Furti	ner documents are listed in the continuation of box C.	X Patent family members are listed i	n annex.					
"A" docume consider the consideration of th	ent defining the general state of the art which is not lered to be of particular relevance document but published on or after the international late ent which may throw doubts on priority claim(s) or its cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filling date but	T' tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. S' document member of the same patent family.						
	0 August 2004	10/09/2004						
	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer						
	Curpean Fateri Circle, F.B. 3616 Faterinaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Cortés, J						

INTERNATIONAL SEARCH REPORT

International application No. PCT/EP2004/006592

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:						
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Although claim 10 is directed to a method of treatment of the humanl body, the search has been carried out and based on the alleged effects of the compounds.						
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:						
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).						
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)						
This International Searching Authority found multiple inventions in this International application, as follows:						
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.						
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.						
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:						
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:						
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.						

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/EP2004/006592

Patent document cited in search repo	rt	Publication date		Patent family member(s)	Publication date
WO 03043981	Α	30-05-2003	EP WO	1444201 A1 03043981 A1	11-08-2004 30-05-2003
WO 03053925	Α	03-07-2003	WO	03053925 A1	03-07-2003

Form PCT/ISA/210 (patent family annex) (January 2004)